

Datasheet for ABIN1386772
anti-EIF4E antibody (AA 121-217)[Go to Product page](#)

1 Validation

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Overview

Quantity:	100 µL
Target:	EIF4E
Binding Specificity:	AA 121-217
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EIF4E antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunocytochemistry (ICC), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human eIF4E
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse
Purification:	Purified by Protein A.

Target Details

Target:	EIF4E
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Target Details

Alternative Name:	eIF4E (EIF4E Products)
Background:	<p>Synonyms: CBP, EIF4F, AUTS19, EIF4E1, EIF4EL1, Eukaryotic translation initiation factor 4E, eIF-4E, eIF4E, eIF-4F 25 kDa subunit, mRNA cap-binding protein</p> <p>Background: Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures. Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit mediates the binding to the mRNA cap.</p>
Gene ID:	1977
UniProt:	P06730
Pathways:	BCR Signaling

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500
Restrictions:	For Research Use only

Handling

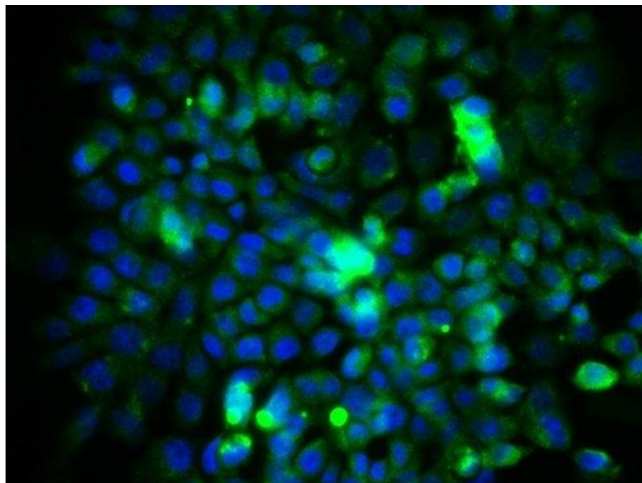
Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C, -20 °C

Handling

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

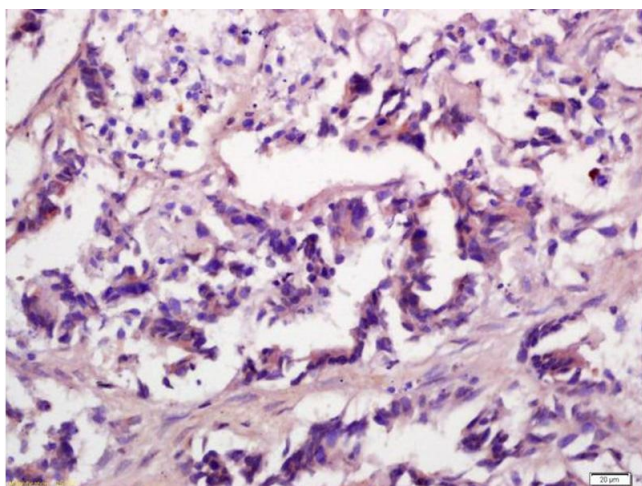
Expiry Date: 12 months

Images



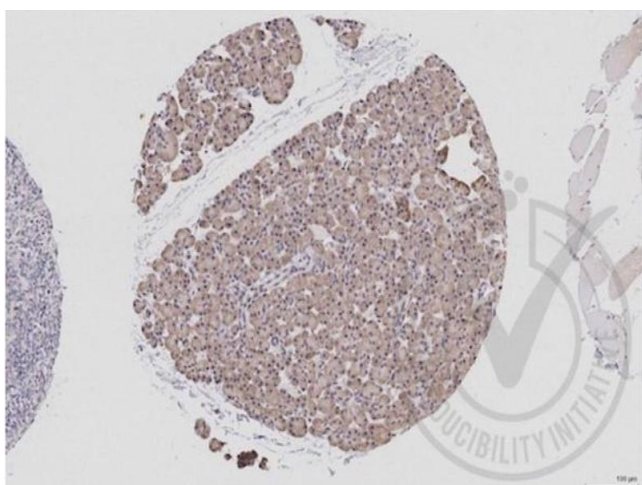
Immunofluorescence (Cultured Cells)

Image 1. Image provided by One World Lab validation program. A431 cells probed with Rabbit Anti-eIF4E Polyclonal Antibody at 1:50 for 60 minutes at room temperature followed by Goat Anti-Rabbit IgG (H+L) Alexa Fluor 488 Conjugated secondary antibody.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human gastric cancer labeled with Anti-eIF4E Polyclonal Antibody, Unconjugated (ABIN1386772) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry

Image 3. Independently Validated Antibody, image provided by Science Direct, badge number 029640: Formalin-fixed and paraffin embedded human pancreas labeled with Anti-eIF4E Polyclonal Antibody, Unconjugated (ABIN1386772) at 1:250 followed by conjugation to the secondary antibody and DAB staining



Successfully validated (Immunohistochemistry (IHC))

by [Immunohistochemistry Core, NYU Langone](#)

Report Number: 029640

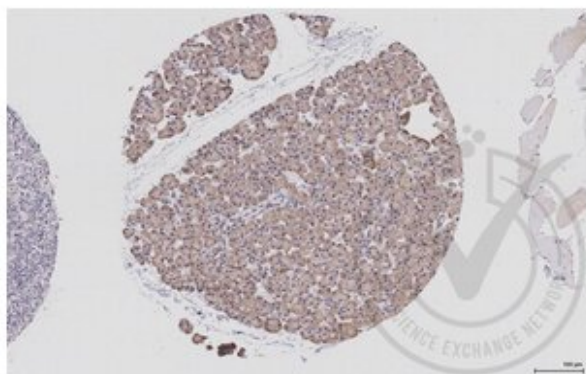
Date: Mar 14 2014

Lot Number:	140106
Method validated:	Immunohistochemistry (IHC)
Positive Control:	Human pancreas
Negative Control:	Human colon
Notes:	Clear strong signal was detected in positive control sample. Note a minor amount of expected background staining in negative control sample.
Primary Antibody:	- Antigen: Eukaryotic Translation Initiation Factor 4E (EIF4E) - Catalog number: ABIN1386772 - Supplier: Bioss - Supplier catalog number: bs-4979R - Lot number: 140106
Secondary Antibody:	- Antibody: Biotinylated goat anti-rabbit/anti-mouse (Kit) - Supplier: Ventana Medical Systems - Catalog number: 760-091 - Lot number: D07640BA
Isotype:	- Antibody: Rabbit IgG isotype control - Supplier: Ventana Medical Systems - Catalog number: 790-2014 - Lot number: C11245
Controls:	<ul style="list-style-type: none"> • Positive control: Human pancreas tissue stained with antibody • Negative control: Human colon tissue stained with antibody • Isotype control: Human pancreas tissue stained with isotype control • Secondary only control: Human pancreas tissue stained with secondary antibody only
Protocol:	<ul style="list-style-type: none"> • Immunohistochemistry was performed on a Ventana NEXes automated platform; instrument manufacturer specific reagents are italicized. • 1. Slides were preheated in convection oven at 60°C for 30 min • 2. Deparaffinization procedure: - 3 changes of Xylene, 5 min each - 3 changes of 100% Ethanol, 3 min each - 3 changes of 95% Ethanol, 3 min each - Rinsed in distilled water, 3 changes • 3. Heat retrieval procedure - Slides retrieved in 10.0 mM Citrate, pH6.0 in a 1000W microwave oven (~100°C) for 15 min. - Slides were allowed to cool (in citrate) for 30 min. - Slides were washed x 3 in Distilled water • 4. NEXes instrument procedure, iView DAB paraffin protocol (*abridged*): - Slide chamber warmed to 37°C • 5. Slides rinsed with *reaction buffer* x3

- 6. *iView Inhibitor (H2O2)* applied and incubated for 4 min
- 7. Slides rinsed with *reaction buffer*
- 8. Antibody Application - Primary antibody diluted 1:250 in PBS (100 microliter applied/slide) - Ventana Isotype control applied neat - Slides Incubated overnight at room temperature (~12 hours ~25°C)
- 9. Slides rinsed with *reaction buffer* x3
- 10. *iView Biotinylated IgG* applied and incubated for 8 min
- 11. Slides rinsed with *reaction buffer*
- 14. *iView Streptavidin-Horseradish Peroxidase* applied and incubated for 8 min
- 15. Slides rinsed with *reaction buffer*
- 16. *iView DAB/H2O2* applied and incubated for 8 min
- 17. Slides rinsed with *reaction buffer*
- 18. *iView Copper* applied and incubated for 4 min
- 19. Slides rinsed with *reaction buffer*
- 20. Slides washed in Dawn Detergent/tap water
- 21. Counterstain Procedure - Hematoxylin (Leica 560 MX) 30 sec - Slides washed in tap water, 1 min - Decolorized (10% Acetic Acid in 70% ethanol), 1 min - Slides washed in tap water, 1 min - Bluing (Austin Clear Ammonia), 1 min - Slides washed in tap water, 1 min
- 22. Dehydration/cover slipping procedure: - 3 changes of 95% Ethanol, 3 min each - 3 changes of 100% Ethanol, 3 min each - 3 changes of Xylene, 5 min each - Mounted with Permount
- 23. Imaging: Leica SCN 400F Whole Slide Scanner with Digital Image Hub and Leica Slidepath software

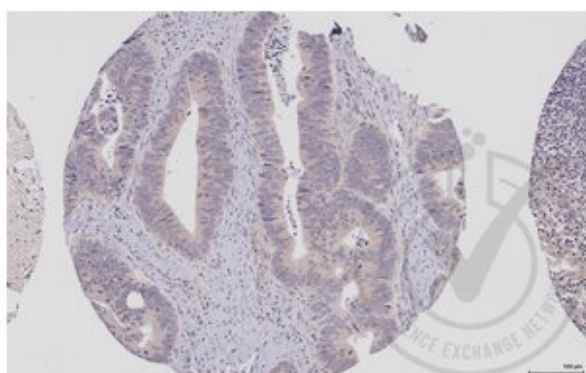
Experimental Notes:

- Deviations from protocol/procedure supplied by manufacturer (attached).
 - Step 1: Heated tissue 60°C for 30 minutes; manufacturer heats for 45 minutes.
 - Step 2: No ethanol wash was performed during deparaffinization; manufacturer includes 1 wash of 80% ethanol for 3 minutes.
 - Step 3.1: Slides were heated for 15 minutes; manufacturer provides a range of 15-20 minutes.
 - Step 3.2: Slides were cooled for 30 minutes; manufacturer cools for 20 minutes.
 - Step 4: Italicized reagents and incubation time are fixed instrument parameters.
 - Step 5: Secondary species-specific serum block not used; manufacturer blocks with 5% normal goat serum for 2 hours.
 - Step 8.1: Antibody diluted in PBS at 1:250; manufacture did not recommend diluent or dilution.
 - Step 8.2.1: Primary antibody incubated at room temperature overnight; manufacturer incubates overnight 4°C with agitation.
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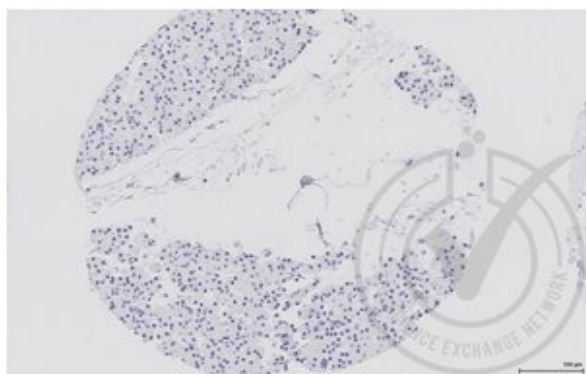
Validation image no. 1 for anti-Eukaryotic Translation Initiation Factor 4E (EIF4E) (AA 121-217) antibody (ABIN1386772)

Figure 1: Human pancreas tissue stained with anti-EIF4E (brown) and counterstained with hematoxylin.



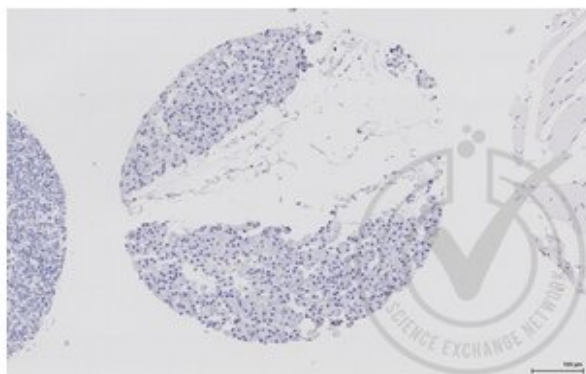
Validation image no. 2 for anti-Eukaryotic Translation Initiation Factor 4E (EIF4E) (AA 121-217) antibody (ABIN1386772)

Figure 2: Human colon tissue stained with anti-EIF4E (brown) and counterstained with hematoxylin.



Validation image no. 3 for anti-Eukaryotic Translation Initiation Factor 4E (EIF4E) (AA 121-217) antibody (ABIN1386772)

Figure 3: Human pancreas tissue stained with isotype control antibody (brown) and counterstained with hematoxylin.



Validation image no. 4 for anti-Eukaryotic Translation Initiation Factor 4E (EIF4E) (AA 121-217) antibody (ABIN1386772)

Figure 4: Human pancreas tissue stained with secondary antibody only (brown) and counterstained with hematoxylin.